

Section II
Soil and Site Information

Construction Materials Table 2
Bon Homme County, South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The ratings given for the thickest layer are for the thickest layer above and excluding the bottom layer. The numbers in the value columns range from 0.00 to 0.99. The greater the value, the greater the likelihood that the bottom layer or thickest layer of the soil is a source of sand or gravel. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
AaA: Alcester-----	85	Fair Low content of organic matter Water erosion	0.50 0.90	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.90	Poor Depth to permafrost	0.00
AcA: Alcester-----	50	Fair Low content of organic matter Water erosion	0.50 0.90	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.90	Poor Depth to permafrost	0.00
Chancellor-----	35	Poor Too clayey Low content of organic matter Water erosion	0.00 0.50 0.90	Poor Depth to permafrost Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.00 0.12	Poor Depth to permafrost Too Clayey Depth to saturated zone	0.00 0.00 0.00
Bn: Bon-----	85	Good		Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
Bo: Bon-----	85	Good		Poor Depth to permafrost Low strength	0.00 0.78	Poor Depth to permafrost	0.00
Br: Bonilla-----	50	Good		Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.89	Poor Depth to permafrost	0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Crossplain-----	30	Poor Too clayey Low content of organic matter Water erosion	0.00 0.88 0.99	Poor Depth to permafrost Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.00 0.64	Poor Depth to permafrost Too Clayey Depth to saturated zone	0.00 0.00 0.00
BsE: Boyd-----	50	Poor Too clayey Droughty Depth to bedrock Water erosion	0.00 0.00 0.58 0.99	Poor Depth to bedrock Depth to permafrost Low strength Shrink-swell Slope	0.00 0.00 0.00 0.00 0.08	Poor Slope Depth to permafrost Too Clayey Depth to bedrock	0.00 0.00 0.00 0.58
Sansarc-----	30	Poor Too clayey Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.60 0.99	Poor Depth to bedrock Slope Shrink-swell Depth to permafrost Low strength	0.00 0.00 0.00 0.00 0.00	Poor Slope Depth to permafrost Too Clayey Depth to bedrock	0.00 0.00 0.00 0.00
CmA: Clarno-----	60	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.00 0.87	Poor Depth to permafrost Salinity	0.00 0.88
Bonilla-----	25	Good		Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.89	Poor Depth to permafrost	0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
CmB: Clarno-----	60	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Salinity	0.00 0.88
Bonilla-----	25	Good		Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.89	Poor Depth to permafrost	0.00
CnA: Clarno-----	45	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Salinity	0.00 0.88
Crossplain-----	25	Poor Too clayey Low content of organic matter Water erosion	0.00 0.88 0.99	Poor Depth to permafrost Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.00 0.64	Poor Depth to permafrost Too Clayey Depth to saturated zone	0.00 0.00 0.00
Davison-----	15	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.84 0.99	Poor Depth to permafrost Depth to saturated zone	0.00 0.98	Poor Depth to permafrost Carbonate content Depth to saturated zone	0.00 0.84 0.98
CsB: Clarno-----	45	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Salinity	0.00 0.88

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ethan-----	25	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Carbonate content	0.00 0.68
Bonilla-----	15	Good		Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.89	Poor Depth to permafrost	0.00
DaB: Davis-----	85	Good		Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.99	Poor Depth to permafrost	0.00
DaC: Davis-----	85	Good		Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.99	Poor Depth to permafrost	0.00
DlC: Delmont-----	50	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.72	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.32
Talmo-----	30	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.13	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.00
EaA: Eltree-----	90	Fair Low content of organic matter Water erosion	0.88 0.90	Poor Depth to permafrost Low strength	0.00 0.00	Poor Depth to permafrost	0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
EaB: Eltree-----	85	Fair Low content of organic matter Water erosion	0.88 0.90	Poor Depth to permafrost Low strength	0.00 0.00	Poor Depth to permafrost	0.00
EbC: Eltree-----	50	Fair Low content of organic matter Water erosion	0.88 0.90	Poor Depth to permafrost Low strength	0.00 0.00	Poor Depth to permafrost	0.00
Ethan-----	30	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Carbonate content	0.00 0.68
EbE: Eltree-----	50	Fair Low content of organic matter Water erosion	0.88 0.90	Poor Depth to permafrost Low strength	0.00 0.00	Poor Depth to permafrost Slope	0.00 0.37
Ethan-----	35	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Depth to permafrost Slope Low strength Shrink-swell	0.00 0.00 0.00 0.87	Poor Slope Depth to permafrost Carbonate content	0.00 0.00 0.68
EcD: Eltree-----	55	Fair Low content of organic matter Water erosion	0.88 0.90	Poor Depth to permafrost Low strength	0.00 0.00	Poor Depth to permafrost Slope	0.00 0.37
Crofton-----	30	Fair Low content of organic matter Water erosion	0.12 0.90	Poor Depth to permafrost Low strength	0.00 0.00	Poor Depth to permafrost Slope	0.00 0.37

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
EdA: Enet-----	50	Fair Low content of organic matter Too sandy	0.12 0.14	Good		Poor Rock fragments Too sandy Hard to reclaim	0.00 0.14 0.82
Delmont-----	35	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.72	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.32
EdB: Enet-----	45	Fair Low content of organic matter Too sandy	0.12 0.14	Good		Poor Rock fragments Too sandy Hard to reclaim	0.00 0.14 0.82
Delmont-----	40	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.72	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.32
EhB: Ethan-----	45	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Carbonate content	0.00 0.68
Alcester-----	35	Fair Low content of organic matter Water erosion	0.50 0.90	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.90	Poor Depth to permafrost	0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
EhC: Ethan-----	50	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Carbonate content	0.00 0.68
Alcester-----	30	Fair Low content of organic matter Water erosion	0.50 0.90	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.90	Poor Depth to permafrost	0.00
EmE: Ethan-----	50	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Depth to permafrost Low strength Slope Shrink-swell	0.00 0.00 0.50 0.87	Poor Slope Depth to permafrost Carbonate content	0.00 0.00 0.68
Betts-----	30	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.92 0.99	Poor Slope Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.00 0.87	Poor Slope Depth to permafrost Carbonate content	0.00 0.00 0.92
EnC: Ethan-----	55	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Carbonate content	0.00 0.68
Bonilla-----	30	Good		Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.89	Poor Depth to permafrost	0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
EoD: Ethan-----	50	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Slope Carbonate content	0.00 0.37 0.68
Davis-----	40	Good		Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.99	Poor Depth to permafrost Slope	0.00 0.37
EpC: Ethan-----	55	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Carbonate content	0.00 0.68
Homme-----	35	Fair Too clayey Low content of organic matter Water erosion	0.24 0.50 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.69	Poor Depth to permafrost Too Clayey	0.00 0.23
Fv: Norway-----	100	Poor Wind erosion Too sandy Low content of organic matter Droughty	0.00 0.11 0.12 0.35	Not Rated Depth to saturated zone Depth to permafrost	0.00 0.00	Poor Depth to permafrost Depth to saturated zone Too sandy	0.00 0.00 0.11

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
GeE: Gavins-----	50	Poor Droughty Carbonate content Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.50 0.90	Poor Depth to bedrock Slope Depth to permafrost Low strength	0.00 0.00 0.00 0.00	Poor Slope Depth to permafrost Carbonate content Depth to bedrock	0.00 0.00 0.00 0.00
Ethan-----	30	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Depth to permafrost Low strength Slope Shrink-swell	0.00 0.00 0.50 0.87	Poor Slope Depth to permafrost Carbonate content	0.00 0.00 0.68
GrA: Graceville-----	85	Good		Poor Low strength Shrink-swell	0.00 0.95	Good	
HmA: Homme-----	50	Fair Too clayey Low content of organic matter Water erosion	0.24 0.50 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.69	Poor Depth to permafrost Too Clayey	0.00 0.23
Davison-----	20	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.84 0.99	Poor Depth to permafrost Depth to saturated zone	0.00 0.98	Poor Depth to permafrost Carbonate content Depth to saturated zone	0.00 0.84 0.98

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Tetonka-----	20	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to saturated zone Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.00 0.28	Poor Depth to permafrost Depth to saturated zone Too Clayey	0.00 0.00 0.00
HnB: Homme-----	45	Fair Too clayey Low content of organic matter Water erosion	0.24 0.50 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.69	Poor Depth to permafrost Too Clayey	0.00 0.23
Ethan-----	25	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Carbonate content	0.00 0.68
Onita-----	15	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.90	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.57	Poor Depth to permafrost Too Clayey	0.00 0.00
HpB: Homme-----	50	Fair Too clayey Low content of organic matter Water erosion	0.24 0.50 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.69	Poor Depth to permafrost Too Clayey	0.00 0.23
Ethan-----	20	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Carbonate content	0.00 0.68

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Tetonka-----	15	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to saturated zone Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.00 0.28	Poor Depth to permafrost Depth to saturated zone Too Clayey	0.00 0.00 0.00
HpC: Homme-----	45	Fair Too clayey Low content of organic matter Water erosion	0.24 0.50 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.69	Poor Depth to permafrost Too Clayey	0.00 0.23
Ethan-----	25	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Carbonate content	0.00 0.68
Tetonka-----	15	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to saturated zone Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.00 0.28	Poor Depth to permafrost Depth to saturated zone Too Clayey	0.00 0.00 0.00
HrA: Homme-----	60	Fair Too clayey Low content of organic matter Water erosion	0.24 0.50 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.69	Poor Depth to permafrost Too Clayey	0.00 0.23
Onita-----	25	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.90	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.57	Poor Depth to permafrost Too Clayey	0.00 0.00

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HrB: Homme-----	60	Fair		Poor		Poor	
		Too clayey	0.24	Depth to permafrost	0.00	Depth to permafrost	0.00
		Low content of organic matter	0.50	Low strength	0.00	Too Clayey	0.23
Onita-----	25	Water erosion	0.99	Shrink-swell	0.69		
		Poor		Poor		Poor	
		Too clayey	0.00	Depth to permafrost	0.00	Depth to permafrost	0.00
HtA: Homme-----	45	Low content of organic matter	0.12	Low strength	0.00	Too Clayey	0.00
		Water erosion	0.90	Shrink-swell	0.57		
		Fair		Poor		Poor	
Onita-----	25	Too clayey	0.24	Depth to permafrost	0.00	Depth to permafrost	0.00
		Low content of organic matter	0.50	Low strength	0.00	Too Clayey	0.23
		Water erosion	0.99	Shrink-swell	0.69		
Tetonka-----	15	Poor		Poor		Poor	
		Too clayey	0.00	Depth to permafrost	0.00	Depth to permafrost	0.00
		Water erosion	0.99	Depth to permafrost	0.00	Depth to permafrost	0.00
				saturated zone	0.00	saturated zone	0.00
				Low strength	0.00	Too Clayey	0.00
				Shrink-swell	0.28		

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
La: Lamo-----	85	Fair Low content of organic matter Water erosion	0.88 0.90	Poor Depth to permafrost Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.53 0.87	Poor Depth to permafrost Depth to saturated zone	0.00 0.53
M-W: Miscellaneous Water-	100	Not rated		Not rated		Not rated	
OcA: Onita-----	55	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.90	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.57	Poor Depth to permafrost Too Clayey	0.00 0.00
Chancellor-----	30	Poor Too clayey Low content of organic matter Water erosion	0.00 0.50 0.90	Poor Depth to permafrost Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.00 0.12	Poor Depth to permafrost Too Clayey Depth to saturated zone	0.00 0.00 0.00
ReD: Redstoe Variant-----	50	Poor Carbonate content Water erosion	0.00 0.90	Poor Depth to permafrost Low strength	0.00 0.00	Poor Depth to permafrost Carbonate content Slope	0.00 0.00 0.63

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Gavins-----	30	Poor Droughty Carbonate content Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.50 0.90	Poor Depth to bedrock Depth to permafrost Low strength Slope	0.00 0.00 0.00 0.92	Poor Depth to permafrost Carbonate content Depth to bedrock Slope	0.00 0.00 0.00 0.00
Sa: Salmo-----	85	Fair Salinity Carbonate content Sodium content Too clayey	0.88 0.97 0.97 0.98	Poor Depth to permafrost Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.00 0.87	Poor Depth to permafrost Depth to saturated zone Salinity Sodium content Too Clayey	0.00 0.00 0.00 0.98 0.98
Sb: Sardak-----	60	Poor Too sandy Wind erosion Droughty Low content of organic matter	0.00 0.00 0.35 0.88	Poor Depth to permafrost	0.00	Poor Depth to permafrost Too sandy	0.00 0.00
Waubonsie-----	25	Poor Too clayey Low content of organic matter Carbonate content	0.00 0.50 0.97	Poor Depth to permafrost Low strength Shrink-swell Depth to saturated zone	0.00 0.00 0.00 0.53	Poor Depth to permafrost Too Clayey Depth to saturated zone Carbonate content	0.00 0.00 0.53 0.97

Section II
Soil and Site Information

Construction Materials Table 2
Bon Homme County, South Dakota

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
TaE: Talmo-----	60	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.13	Poor Slope	0.00	Poor Slope Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.00 0.00
Delmont-----	30	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.72	Fair Slope	0.50	Poor Slope Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.00 0.32
TbE: Talmo-----	45	Poor Too sandy Droughty Low content of organic matter	0.00 0.02 0.12	Poor Slope Cobble content	0.00 0.98	Poor Slope Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.00 0.00
Ethan-----	35	Fair Carbonate content Low content of organic matter Water erosion	0.32 0.50 0.99	Poor Low strength Shrink-swell Slope	0.00 0.87 0.98	Poor Slope Carbonate content	0.00 0.68
Te: Tetonka-----	85	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to saturated zone Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.00 0.28	Poor Depth to permafrost Depth to saturated zone Too Clayey	0.00 0.00 0.00 0.00

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
ThC: Thurman-----	80	Poor Too sandy Wind erosion Low content of organic matter Droughty	0.00 0.00 0.12 0.51	Poor Depth to permafrost	0.00	Poor Depth to permafrost Too sandy Slope	0.00 0.00 0.96
ThE: Thurman-----	80	Poor Too sandy Wind erosion Low content of organic matter Droughty	0.00 0.00 0.12 0.51	Poor Depth to permafrost Slope	0.00 0.00	Poor Slope Depth to permafrost Too sandy	0.00 0.00 0.00
W: Water-----	100	Not rated		Not rated		Not rated	
Wg: Worthing-----	85	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to saturated zone Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.00 0.00	Poor Depth to permafrost Too Clayey Depth to saturated zone	0.00 0.00 0.00
Wo: Worthing-----	99	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to saturated zone Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.00 0.00	Poor Depth to permafrost Too Clayey Depth to saturated zone	0.00 0.00 0.00

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
YaA: Yankton-----	60	Fair Low content of organic matter Water erosion	0.12 0.90	Poor Depth to permafrost Low strength	0.00 0.00	Poor Depth to permafrost	0.00
Alcester-----	25	Fair Low content of organic matter Water erosion	0.50 0.90	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.90	Poor Depth to permafrost	0.00
YaB: Yankton-----	60	Fair Low content of organic matter Water erosion	0.12 0.90	Poor Depth to permafrost Low strength	0.00 0.00	Poor Depth to permafrost	0.00
Alcester-----	25	Fair Low content of organic matter Water erosion	0.50 0.90	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.90	Poor Depth to permafrost	0.00

